

## Secondary (Career and Technical)

### 7-12

## Endorsement in Manufacturing Technology

### Comprehensive Major

Thirty-six (36) semester credits required for a major in manufacturing technology **must** include course work in **each** of the following areas:

- |     |                                   |
|-----|-----------------------------------|
| 1.  | Acetylene welding                 |
| 2.  | Electric arc welding              |
| 3.  | Machine tool operation            |
| 4.  | Metal fabrication-arc             |
| 5.  | Metal fabrication                 |
| 6.  | Industrial metals;                |
| 7.  | Reading blueprints                |
| 8.  | Basic metals                      |
| 9.  | Welding design and layout         |
| 10. | Inspection testing                |
| 11. | Advanced arc welding              |
| 12. | GTAW (TIG) and GMAW (MIG) welding |

### Comprehensive Minor

Twenty- four (24) semester credits required for a minor in manufacturing technology **must** include course work in **each** of the following areas:

- |    |                             |
|----|-----------------------------|
| 1. | Acetylene welding           |
| 2. | Introduction to arc welding |
| 3. | Basic metals                |
| 4. | Welding design and layout   |
| 5. | Reading blueprints          |
| 6. | Machine reading             |
| 7. | Metal fabrication           |
| 8. | Inspection testing          |